MIDDLESEX UNIVERSITY

SCHOOL OF MEDICINE

CATALOGUE

1941-1942

WALTHAM BOSTON

MASSACHUSETTS

STATEMENT

The Medical Catalogue, published well in advance of the school year to which it applies, contains a record of the faculty of the School of Medicine, and of the courses of instruction; and announcements relative to the calendar, requirements for admission and graduation, fees, examinations, and rules for student conduct.

The provisions of this catalogue are not intended to be taken as a basis for the contractual relationship arising between the University and its students. The purpose of the Officers and Trustees is continuously to improve the methods and standards of instruction, and they reserve to themselves the right and responsibility of altering at any time the curriculum, requirements, teaching personnel, fees, and rules, as circumstances may require, or as they may deem to be to the best interest of the University.

MIDDLESEX UNIVERSITY

CATALOGUE
OF THE
SCHOOL OF MEDICINE

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WALTHAM BOSTON

MASSACHUSETTS

UNIVERSITY CALENDAR

	1941		
July	7	Monday	Summer session begins.
Aug.	16	Saturday	Summer session ends.
Sept.	15 to 20	Monday to Saturday	First installment of tuition due.
Sept.	22 to 27	Monday to Saturday	Examinations for the removal of conditions.
Sept.	25	Thursday	Fall Session opens.
Oct.	13	Monday	Columbus Day. A holiday.
Nov.	11	Tuesday	Armistice Day. A holiday.
Nov.	26 to 29	Wednesday to Saturday	Thanksgiving Recess.
Dec.	15 to 20	Monday to Saturday	Second installment of tuition due.
Dec.	22	Monday	Christmas Vacation begins.
	1942		
Jan.	5	Monday	Classes resumed.
Feb.	9	Monday	Second Semester begins.
Feb.	23	Monday	Washington's Birthday. A holiday.
Mar.	23 to 28	Monday to Saturday	Third installment of tuition due.
Mar.	23 to 28	Monday to Saturday	Spring recess.
Mar.	31	Monday	Classes resumed.
April	20	Monday	Patriots' Day. A holiday.
May	30	Saturday	Memorial Day. A holiday.
June	13	Saturday	Seniors' Class Day.
June	14	Sunday	Baccalaureate Service.
June	15	Monday	Commencement Exercises.

THE TRUSTEES OF MIDDLESEX UNIVERSITY

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C. RUGGLES SMITH

FIRST VICE PRESIDENT
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SECOND VICE PRESIDENT
JOHN M. RUSSELL

TREASURER
JOHN HALL SMITH

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MABEL B. SMITH

ARTHUR A. HANSEN	Waltham
HOWARD CHARLES GALE	Beverly
JOSEPH I. CHESKIS	Boston
HARRY R. BOLAN	Cambridge
HENRY F. BEAL	Waltham
HUGH WALLACE SMITH	Melrose
ROYCE W. GILBERT	Newton
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THOMAS J. SMITH	Boston

EXECUTIVE COMMITTEES OF THE TRUSTEES

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Plant:—HORATIO S. CARD, MABEL B. SMITH, JOHN HALL SMITH, The President ex-officio.

THE DIRECTORS OF THE MEDICAL SCHOOL

STANLEY R. LATSHAW . . . . . Haddam, Conn.

ALTON L. MILLER . . . . . Brookline, Mass.

CHARLES J. O'MALLEY . . . . . Boston, Mass.

JOSEPH F. O'CONNELL . . . . . Boston, Mass.

OFFICERS OF ADMINISTRATION

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AUGUSTUS RILEY, A.B., M.D.

ASSISTANT TO THE DEAN
DAVID LYMAN DAVIDSON, PH.D.

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HAROLD M. KAPLAN, PH.D.

COUNSEL
JOHN M. RUSSELL, A.B., LL.B.

DIRECTOR OF BUILDINGS AND CAMPUS
MABEL B. SMITH

ASSISTANT TREASURER AND BURSAR
MARJORIE K. FAXON

LIBRARIAN
FLORENCE E. TURNER

SECRETARY TO THE DEAN
JULIA O'LEARY

FACULTY OF THE SCHOOL OF MEDICINE

The list of faculty of the School of Medicine includes those engaged in teaching during the session 1940-1941, and those who have been appointed up to January 1, 1941, for the session 1941-1942. The complete list of faculty appointments for the 1941-1942 school year will not be available until September, 1941. It is anticipated that a substantial number of important additions to the faculty roster will be announced during the intervening period.

ANATOMY, HISTOLOGY, AND EMBRYOLOGY

WILLIAM M. KONIKOV — *Professor of Anatomy*
A.B., Harvard University, 1917; M.D., Boston University, 1928
[1936]

J. RICHARD WEISSENBERG — *Professor of Histology and Embryology*
M.D., University of Berlin, 1907
[1940]

LOUIS BERGMANN — *Associate Professor of Anatomy*
M.D., University of Vienna, 1932
[1939]

JULIUS RUBIN — *Assistant Professor of Anatomy*
M.D., Middlesex University, 1934
[1939; 1935]

VINCENT W. SENA — *Instructor in Surgical Anatomy*
B.S., Columbia University; M.D., Middlesex University, 1925
[1939]

MEYER PERLSTEIN — *Instructor in Histology and Embryology*
B.S., Columbia University, 1931; M.D., Middlesex University, 1939
[1940; 1939]

PHYSIOLOGY

HAROLD M. KAPLAN — *Professor of Physiology*
A.B., Dartmouth College, 1930; PH.D., Harvard University, 1933
[1937; 1934]

KARL SINGER — *Professor of Clinical Physiology*
M.D., University of Vienna, 1927
[1940]

NATHAN SKORNIK — *Instructor in Physiology*
B.S., New York University, 1933; M.D., Middlesex University, 1940
[1940]

PTOLEMY A. ADAMS — *Assistant in Physiology*
B.S., University of New Hampshire, 1940
[1940]

A date in brackets indicates appointment to present rank; a second date means year of original appointment.

BIOCHEMISTRY

DAVID L. DAVIDSON — *Professor of Biochemistry*
SC.B., SC.M., PH.D., Brown University, 1933, 1934, 1937
[1938]

SOLOMON H. GORDON — *Associate Professor of Biochemistry*
B.S., Massachusetts State College, 1925; ED.M., Boston University, 1926
[1932; 1926]

BENJAMIN HECHT — *Assistant Professor of Biochemistry*
B.S., PH.C., Massachusetts College of Pharmacy, 1936, 1937
M.S., University of Wisconsin, 1939
[1940; 1939]

PHARMACOLOGY

HANS MAUTNER — *Professor of Pharmacology*
M.D., University of Vienna, 1909
[1939]

ALDO LUISADA — *Associate Professor of Pharmacology*
M.D., University of Florence, 1924
[1939]

SOLOMON P. BIALOW — *Assistant Professor of Pharmacy and Materia-Medica*
PH.G., Brooklyn College of Pharmacy, 1930; M.D., Middlesex University, 1935
[1940; 1937]

I. JACQUES YETWIN — *Instructor in Pharmacology*
B.S., Rutgers University, 1929; M.S., University of Chicago, 1932
M.D., Middlesex University, 1940
[1940]

RUSSELL F. BRODMAN — *Instructor in Pharmacology*
PH.G., Philadelphia College of Pharmacy, 1926
A.B., Temple University, 1932; M.D., Middlesex University, 1939
[1940]

PATHOLOGY, BACTERIOLOGY, AND IMMUNOLOGY

KARL LOWENTHAL — *Professor of Pathology*
M.D., University of Freiburg, 1915
[1938]

OTOKAR J. POLLAK — *Professor of Bacteriology and Immunology*
M.D., 1930; D.SC., Masaryk University, 1934
[1939]

ALBERTO ASCOLI — *Professor of Microbiology*
M.D., University of Vienna, 1901; M.D., University of Pavia, 1902
[1940]

SEYMOUR HERBERT HUTNER — *Assistant Professor of Bacteriology and Immunology*
B.S., College of the City of New York, 1931; PH.D., Cornell University, 1937
[1940]

FRANCIS LICATA — *Assistant Professor of Public Health*
M.D., Middlesex University, 1919
[1940; 1930]

NATHAN SKORNIK — *Instructor in Bacteriology*
B.S., New York University, 1933; M.D., Middlesex University, 1940
[1940]

GENERAL MEDICINE

LEO HESS — *Professor of Medicine*
M.D., PH.D., University of Vienna, 1903, 1906
[1939]

ISIDORE GREEN — *Professor of Psychiatry and Neurology*
M.D., Tufts College, 1922
[1935; 1932]

HANS MAUTNER — *Professor of Pediatrics*
M.D., University of Vienna, 1909
[1940; 1939]

C. RUGGLES SMITH — *Professor of Medical Jurisprudence*
A.B., LL.B., Harvard University; LITT.B., A.M., Columbia University

EDWARD J. LEVENSON — *Associate Professor of Medicine*
A.M., Harvard University, 1931; M.D., University of Rochester, 1935
[1938; 1937]

WILLY OPPLER — *Associate Professor of Psychiatry*
M.D., University of Breslau, 1925; University of Rome, 1934
[1940; 1939]

SAMUEL KAMBERG — *Associate Professor of Roentgenology*
M.D., Tufts College, 1921
[1938; 1925]

HARRY R. BOLAN — *Associate Professor of Clinical Medicine*
A.B., Harvard University, 1905; M.D., Middlesex University, 1915
[1940; 1938]

MARVIN M. GOULD — *Associate Professor of Tropical Medicine*
M.D., Tulane University, 1914
[1940; 1939]

T. VINCENT CAMPAGNA — *Associate Professor of Therapeutics*
M.D., Middlesex University, 1923
[1940; 1923]

ISRAEL KAHALAS — *Associate Professor of Medicine*
M.D., Tufts College, 1930
[1940; 1937]

FRANK B. COLLOTEN — *Associate Professor of Dermatology*
M.D., Middlesex University, 1916
[1940]

HORATIO S. CARD — *Associate Professor of Clinical Medicine*
A.B., A.M., M.D., Bowdoin College, 1899
[1940; 1921]

LOUIS FELDMAN — *Associate Professor of Physical Therapy*
M.D., Tufts College, 1919
[1940; 1935]

ANGELO L. MAIETTA — *Associate Professor of Medicine*
M.D., Middlesex University, 1930
[1940; 1938]

LEO ROBERTS — *Assistant Professor of Biopsychology*
A.B., University of Minnesota, 1922; A.M., PH.D., Harvard University, 1933
[1940]

GEORGE DEVEREUX — *Assistant Professor of Anthropology*
A.B., University of Paris, 1932; PH.D., University of California, 1935
[1940]

JOHN F. CONLIN — *Assistant Professor of Clinical Medicine*
A.B., Boston College; M.D., Tufts College
[1939]

CECIL SMITH — *Assistant Professor of Clinical Medicine*
M.D., Middlesex University, 1925
[1940; 1937]

HENRY DIEFENBACH — *Assistant Professor of Clinical Medicine*
A.B., Columbia University, 1928; M.D., Middlesex University, 1935
[1940; 1937]

ALDO LUISADA — *Lecturer in Cardiology*
M.D., University of Florence, 1924
[1939]

KARL SINGER — *Lecturer in Hematology*
M.D., University of Vienna, 1927
[1940]

JOHN M. RUSSELL — *Lecturer in Medical Jurisprudence*
A.B., Catholic University; LL.B., Harvard University

ALBERT LEVINE — *Instructor in Clinical Medicine*
B.S., Boston University, 1932; M.D., Middlesex University, 1937
[1940]

WILLIAM P. FINNEGAN — *Instructor in Clinical Medicine*
A.B., Boston College, 1931; M.D., Boston University, 1936
[1940]

JOSEPH M. SILVER — *Instructor in Clinical Medicine*
M.D., Middlesex University, 1933
[1940]

G. HAMILTON FRANCIS — *Instructor in Clinical Medicine*
M.D., Meharry Medical College, 1911
[1938]

LEONARD V. SHORT — *Instructor in Clinical Medicine*
B.S., Tufts College, 1928; M.D., Middlesex University, 1939
[1940]

PAUL A. OSKAR — *Instructor in Clinical Medicine*
M.D., Middlesex University, 1930
[1937]

ISADORE KAPLAN — *Instructor in Clinical Medicine*
M.D., Middlesex University, 1936
[1940]

HYMAN I. LILIEN — *Instructor in Clinical Medicine*
M.D., Middlesex University, 1936
[1940]

FRAZIER S. WHITTINGTON — *Instructor in Clinical Medicine*
M.D., Middlesex University, 1922
[1940]

GENERAL SURGERY

AUGUSTUS RILEY — *Professor of Genito-Urinary Surgery*
A.B., Oberlin College, 1903; M.D., Harvard University, 1907
[1940]

MARTIN L. MACDONALD — *Professor of Surgery*
M.D., Middlesex University, 1920
[1939; 1920]

JOSEF FISCHER — *Professor of Otolaryngology*
M.D., University of Vienna, 1915
[1938]

EDWARD D. LEETE — *Professor of Obstetrics*
M.D., Jefferson Medical College, 1915
[1937; 1930]

THEODORE FISCHER-GALATI — *Professor of Ophthalmology*
M.D., University of Vienna, 1909; M.D., University of Rome, 1913
[1939]

EDWARD J. DAILEY — *Associate Professor of Clinical Surgery*
M.D., Tufts College, 1904
[1940; 1937]

HYMAN SHRIER — *Associate Professor of Clinical Surgery*
M.D., Tufts College, 1926
[1940; 1936]

OSCAR KARPATI — *Assistant Professor of Surgery*
M.D., Royal Hungarian "Elizabeth" University, 1926
[1940]

I. W. JOSSELSON — *Assistant Professor of Anesthesia*
M.D., Middlesex University, 1922
[1940; 1928]

JACOB I. ABRAMS — *Assistant Professor of Ophthalmology*
M.D., Boston University, 1928
[1940; 1938]

SAMUEL L. GREENBERG — *Assistant Professor of Urology*
M.D., Middlesex University, 1917
[1940; 1938]

LEWIS GLAZER — *Assistant Professor of Clinical Surgery*
M.D., Tufts College, 1927
[1940; 1938]

VIRGIL ABELE — *Assistant Professor of Clinical Surgery*
M.D., Middlesex University, 1930
[1940; 1937]

WILLIAM E. SHUB — *Assistant Professor of Obstetrics*
M.D., Middlesex University, 1938
[1940; 1938]

SAMUEL SEGAL — *Assistant Professor of Proctology*
A.B., Harvard University, 1924; M.D., Boston University, 1928
[1940; 1938]

WILLIAM M. KONIKOV — *Lecturer in Urology*
A.B., Harvard University, 1917; M.D., Boston University, 1928
[1936]

N. F. DECESARE — *Instructor in Clinical Surgery*
M.D., Tufts College, 1920
[1937]

FRANK H. RUSSELL — *Instructor in Clinical Surgery*
M.D., University of Tennessee, 1917
[1940]

JOSEPH S. PHANEUF — *Instructor in Clinical Surgery*
M.D., College of Physicians and Surgeons, 1913
[1939]

J. W. V. CORDICE — *Instructor in Clinical Surgery*
M.D., Howard University, 1911
[1940]

THOMAS W. LEAVITT — *Instructor in Clinical Surgery*
M.D., College of Physicians and Surgeons
[1940]

JOSEPH BARONE — *Instructor in Clinical Surgery*
M.D., Tufts College, 1911
[1938]

HERBERT NOGIN — *Assistant in Stomatology*
B.S., Long Island University, 1933; D.D.S., University of Buffalo, 1937
[1940]

NATIONAL DEFENSE

OTOKAR J. POLLAK — *Lecturer in Civil Defense*
M.D., D.SC., Masaryk University, 1930, 1934
[1940]

DAVID RAPPAPORT, 1ST LT. C.A. RES. — *Assistant in Military Medicine*
A.B., University of Alabama, 1936
[1940]

C. WESLEY HOLMES — *Instructor in Aeronautics*
[1939]

LABORATORY TECHNICIANS

KATHERINE G. KELLEY — *Pathology Department*
A.B., Emmanuel College

EXECUTIVE COMMITTEES OF THE FACULTY

Admissions:—HAROLD M. KAPLAN, WILLIAM M. KONIKOV, JOSEPH I. CHESKIS.

Hospitals:—AUGUSTUS RILEY, HARRY R. BOLAN, EDWARD J. LEVENSON, LEO HESS, MARTIN L. MACDONALD.

Catalogue:—HAROLD M. KAPLAN, ROSE F. JANNINI, JOHN M. RUSSELL, WILLIAM M. KONIKOV.

Commencement:—HOWARD CHARLES GALE, REGINALD HARDCASTLE, MARTIN L. MACDONALD.

Library:—EDWARD D. LEETE, JOSEPH I. CHESKIS, HOWARD CHARLES GALE, MABEL B. SMITH.

Curriculum:—AUGUSTUS RILEY, JOSEPH I. CHESKIS, EDWARD D. LEETE, EDWARD J. LEVENSON.

Students Relations:—AUGUSTUS RILEY, DAVID L. DAVIDSON, T. VINCENT CAMPAGNA, HUGH WALLACE SMITH.

Defense:—MARVIN M. GOULD, EDWARD D. LEETE, C. WESLEY HOLMES, JOHN M. RUSSELL.

The Dean is ex-officio member of all faculty committees.

HISTORY

The School of Medicine is the oldest department of Middlesex University. Chartered in 1849 by the Commonwealth of Massachusetts, its first course of instruction was offered in Worcester. After the medical school had been inactive for a period of years, it was reopened in Cambridge in 1914, and shared the use of the building now occupied by the Middlesex Hospital, one of its present affiliates for clinical teaching. As its steady growth made necessary the acquisition of more space, the medical school secured quarters in Boston and finally became established in Waltham, where the erection of its present group of ten buildings was started in 1928.

GROUNDS AND BUILDINGS

Although the buildings of the medical school were constructed during the past twelve years and expressly designed to house its laboratories, classrooms, offices and library, the outward aspect of the group is that of a towering castle, spreading its massive walls of stone across a rocky hill-top,—a modern replica of a medieval, fortified town. The illusion of antiquity is intensified by the heavy covering of ivy that mantles the field-stone buildings, and clings to their battlements, turrets, and bartizans.

Two stone archways, flanked by red-roofed gate towers, lead into the medical quadrangle. Between the entrance arches extends the Medical Library building, a long cloistered structure containing book stacks, individual booths for study, and a unique mosaic ceiling.

Connected by an arch to the library is the Administration Building, four stories high, surmounted by heavy parapets and a circular watchtower, and containing the secretarial offices and the record files of the medical school. It adjoins the Pharmacology Building, two stories in height, that houses two large teaching laboratories for histology and pharmacology, and one research laboratory. This building connects with the South-East Tower, a round five-story structure, topped by an over-hanging parapet, that contains the four medical lecture halls and the Pent-House Theatre. Each lecture hall is equipped with 110 stationary seats, with folding arms for note-taking; the professor's desk and platform, enclosed by a mortised rail bearing a seating chart, and provided with a separate entrance; blackboards and such other equipment as is needed by the class assigned to the room. Each student has his seat assigned and his name printed on the seating chart. The circular construction of the building affords a maximum of light on all sides. The fifth-story hall is reserved for a dark-room, and is available for any class. It is equipped with a motion-picture projector, a stereoptican, and a microprojector, and contains theatre-type seats.

The broad windows of the Pathology Building, which is connected with the South-East Tower at its second-floor level by an arched bridge, overlook the Charles River, winding through the valley below on its ten-mile course to Boston. The spacious teaching laboratories of the departments of pathology and bacteriology occupy the entire two floors of this rectangular structure, with its stone buttresses and external staircase. These laboratories are equipped with microtomes, centrifuges, incubators, autoclaves, a frozen-section machine, refrigerators, cabinets for gross specimens and slides, and individual lockers for students' microscopes. Study-benches run along the sides of the rooms, and work-benches with sinks, gas, electricity, and running water along the center.

All of the buildings of the medical teaching group are interconnecting at one or more levels. From the pathology laboratory a stone passage leads to the round physiology laboratory on the second floor of the Anatomy Building. With light on all sides, this laboratory provides ample space for group work by students in the experimental work of their first-year course in physiology.

Directly below in the dissecting room, large enough to hold eighteen tables radiating from the circular center partition that encloses the prosecting room, the brine tanks, the bone room, the vault, and the students' dressing rooms. The circular outer walls are mostly windows, and the inner walls are covered with black-boards and anatomical charts.

The Office of the Dean is in a projection of the Anatomy Building, facing the center of the quadrangle. Behind this office is the reception room and information bureau. The Anatomy Building is flanked by a round stone tower, three stories high, containing a wide circular staircase and observation chamber. The Norman Tower is the most rugged example of the ancient architectural design that characterizes the medical school group. The merlons and crenelles of its battlement rise high above the round roof of the Anatomy Building, which may be reached by a stone balcony leading from a lower level of the tower. The view from this height embraces all of Waltham and Newton, includes much of Watertown and Cambridge, and extends to the skyline of Boston, where the Custom House Tower, the gilded dome of the State House, and the new Court House, are clearly visible.

The Chemistry Building, joined at two levels to the Anatomy Building, is long and narrow. Its ground floor encloses the biochemistry teaching laboratory, and upstairs are the research laboratories and offices of the various department heads. It is connected at an acute angle with another two-story structure, the College Building, that completes the quadrangle and is joined to the entrance archway. A massive stone structure, with heavy parapets and broad windows, this building contains two rectangular class-rooms, with a seating capacity of 95 each, the office and supply room of the biochemistry department, an animal operating room, a photographic darkroom, and the college library and book-stacks.

Parallel to the Chemistry Building is the Locker Building, which contains a smoking room, lavatories, 500 student lockers, and living quarters for the maintenance staff.

Below the hill on which the medical school buildings are situated, built half underground, is the powerhouse, whose great boilers heat all the buildings on the campus except the dormatory bungalows. This structure still maintains the Norman style in its design and hides its chimney in a tall square stone tower, with parapets on its several setbacks.

The long winding road that leads from street level to the medical group and returns more steeply to the exit drive, traverses almost a hundred acres of colorful campus, past spreading elmshaded lawns, bright flowers gardens, and rose arbors, through fields of farmland, green with corn and other crops, around placid ponds, by rich pastures, and through shaded woods. On this road are to be found buildings that house other departments of the University;—the glittering new Veterinary School and Animal Hospital, and the green-roofed Small-Animal Clinic, and the brick barns, the stone stable, the aviary, kennels, piggery, poultry yards, and garage of the Animal Husbandry department.

The campus also contains living quarters for staff members and a selected group of students. There are ten newly-erected Cape Cod bungalows, white with blue trim, ranged on opposite sides of a rolling lawn. One cottage is reserved for a faculty family and another

for a caretaker. An officer of the University lives in a high-gabled brick cottage, with an old English heart-shaped flower garden, sheltered by tall oaks from the campus roadway.

Certain medical lectures and exercises are held in the large auditorium of the Back Bay Building of the University, located at 415 Newbury Street in the heart of the professional district of up-town Boston, which also houses the classrooms, clinics, and laboratories of the School of Podiatry and of the School of Pharmacy. It also contains administration offices, a branch of the University library, and a gymnasium with a basketball floor and an indoor running track.

Across the river in Cambridge is located the Middlesex Hospital, which is affiliated for teaching purposes with the School of Medicine. Seating arrangements in its modern surgical amphitheater provide space for large numbers of medical students to witness operations or other demonstrations.

STUDENT ACCOMMODATIONS

The first student housing unit on the Middlesex University campus, a group of ten colonial bungalows, was completed in 1940. Each student cottage contains four rooms and a bath with shower, and accommodates four students. There are two single bedrooms, one double bedroom, and a study or living room for the joint use of the four occupants.

The bungalows are Cape Cod colonial in design and embody the most modern methods of construction. They are heated by automatic gas furnaces of the latest type. The dormitory group is conveniently located on the campus within a few minutes' walk of the medical school buildings. The ten bungalows are grouped about a rectangular lawn, transversed by a paved road which leads into the campus from Route 20, the Post Road from Boston to New York.

Medical students may secure rooms in the dormitories for $150 per student for the school year of 36 weeks. The rental is payable in three installments of $50 each on the date set for the payment of the tuition. Since the number of dormitory rooms available is limited, applications from individual students, from those who wish to be roommates, or from groups of four who want to share a cottage, should be filed as soon as possible. In order for a room to be reserved the application must be accompanied by an advanced payment of $25, which is refundable only at the discretion of the University.

The University provides the necessary furniture, heat, hot water, electricity, and maid service for the dormitories. Student occupants have to provide themselves with sheets, pillow cases, blankets, linen, towels, and any furnishings in the way of decorations and rugs. In order that the appearance of the cottages may be uniform the University will provide curtains at cost for each student room.

For the convenience of students who are unable to secure accommodations in the University dormitories, a list of approved rooming houses within walking distance of the campus is maintained. Room and board may be secured with private families at an average weekly cost of $11, and there are a number of conveniently located restaurants.

There are over 100 parking spaces on the campus for students who travel by automobile. Those who come to the University from other states must obey the Massachusetts law that prescribes that non-resident motorists who keep their cars in the state for more than 30 days must conform with the local requirements that all automobiles be covered by liability insurance.

SCHOLARSHIPS, STUDENT-AID, AND AWARDS

Middlesex University has no scholarship endowment, but individual gifts make available each year a limited number of scholarships covering in full or in part tuition in any department of the University. An annual award to a deserving student is donated by Dr. Hugh Beaton, a medical graduate of Middlesex University, practicing in Texas. Applicants for these scholarships must have very high scholastic standing and must be in actual need of financial assistance. Continuance of the scholarship from one year to another depends upon the recipient's moral, social, and scholastic qualifications. All scholarship applicants must have a personal interview with the President and with the Dean of the School of Medicine.

There are also available a limited number of service scholarships covering the cost of tuition. Recipients of these scholarships must have proper qualifications to serve as laboratory assistants or otherwise.

Middlesex University has participated for several years in the federal student work program of the National Youth Administration. The purpose of this program is to provide employment of a socially useful nature for students who would otherwise be financially unable to continue their education. Students appointed to these positions are assigned to work under the supervision of various faculty members and are paid from $10.00 to $20.00 a month by the National Youth Administration. Middlesex University had a quota of 32 federal student aid positions during the school year 1940-1941.

The Civil Aeronautics Authority of the United States government also assigns to Middlesex University quotas under its civil pilot training program. Medical students are thus enabled, at government expense, to qualify for a pilot's license. To be eligible for federal student aid or for the government-sponsored flying course, students must be under 25 years of age.

The Molly Pearlstein Award in Bacteriology, an annual prize of a gold key and $25.00, is given to the student achieving the highest scholarship in bacteriology, upon the designation of the members of the faculty in that department.

REQUIREMENTS FOR ADMISSION

The School of Medicine is co-educational, and the course leading to the degree of Doctor of Medicine is open on equal terms to both men and women.

No applicant is accepted until he has had a personal interview.

Admission of candidates is generally restricted to those who have been graduated with a bachelor's degree from an approved college, with satisfactory credits in inorganic and organic chemistry, physics, biology, psychology, English, and a modern foreign language.

The Medical School may accept a certain number of applicants of unusual ability and promise who have completed only three years of college work. Such college work must include one year of physics, two years of biology and approximately three years of chemistry covering courses in inorganic, organic and physical chemistry.

Candidates for admission are required to make application upon blanks which may be obtained from the school. All questions contained in the application blank must be answered in full, and the applicant must file a recent unmounted photograph. The application must be submitted accompanied by a verification fee of ten dollars. The Committee on Admissions reserves the right to refuse admission to any applicant without stating any reason for its action. Credentials and photographs which are filed by candidates for admission become the property of the university, and are kept permanently in the files.

ADMISSION TO ADVANCED STANDING

Each year there are a number of vacancies in the second, third and fourth year classes available for transfers from other medical schools. Applicants for advanced standing must present evidence of the successful completion of one or more years of instruction in an approved medical school with equal entrance requirements. No credit or advanced standing may be given for partially completed school years, or for years in which an applicant was unsuccessful in passing all the courses of the curriculum. In exceptional cases, however, an applicant who has been in attendance at some other medical school during the first semester of a given year may be admitted to the second semester of the same calendar year at this School.

No candidate for advanced standing will be accepted who has been denied readmission to the medical school previously attended for reasons of conduct or scholarship. All applicants for advanced standing must have been entitled to an honorable dismissal from the medical school previously attended. No advanced standing may be granted on credits from schools of osteopathy, dentistry, or from other than approved medical schools.

A candidate admitted to advanced standing must spend at least one year in the School, completing the regular fourth or last year of study before the degree is conferred. Before admission to such fourth year, the candidate seeking admission to advanced standing must fulfill all the conditions required of candidates for admission to the fourth year who have taken the uninterrupted course in this School.

ADMISSION AS A SPECIAL STUDENT

Applicants whose qualifications are considered acceptable may be admitted as special students in specific courses of the medical curriculum. Special students, however, will not be accepted as candidates for a degree.

ADMISSION TO POST-GRADUATE COURSES

Graduates in medicine will be admitted to post-graduate courses of a didactic and clinical nature, which are offered by the School of Medicine in affiliation with the Middlesex Hospital. Such courses are not part of the curriculum leading to the degree of Doctor of Medicine, but are intended for physicians who are seeking instruction in the specialized fields of the profession.

EXAMINATIONS AND PROMOTION

Admission to the School is for one year only, and the Trustees reserve the right to dismiss a student at any time, or to refuse readmission or promotion to any student.

The medical course extends over a period of four years, and the students are divided into four classes. Promotion from one class to another is based upon the satisfactory completion of the work of each year. A student will not be admitted to the final examinations in any course unless his class record, attendance, and laboratory work in that subject, are satisfactory, and all of these elements will be considered in the determination of his final grade. Marks are given in all courses on a percentage basis, and a grade of seventy-five per-cent is required to pass the course.

A student will not be allowed the privilege of final examinations, or be given his final grades in any course, until he has satisfied all of his financial obligations to the School.

The Administrative Officers of the School and members of the Faculty review the work of the student at the end of the first, second, and third years of the course. It is within the province of the Administrative Officers and of the Faculty to decide whether a student shall be promoted to the next class, shall be permitted to take further instruction in the Summer Session* and examinations for the removal of conditions in September, shall be required to repeat the year's work, or shall be denied further registration in the School by reason of unsatisfactory scholarship.

In order to be promoted a student must have successfully passed all of the examinations in the work of the previous year.

Students who fail to receive passing grades in the final examinations in June may, if their grades justify further consideration, be given an opportunity to enroll in the Summer Session for further instruction in the subjects failed, and to take examinations for the removal of their conditions during the scheduled re-examination period in September before the opening of the school year. A fee of five dollars is charged for every such re-examination. The Administrative Officers and Faculty may permit re-examination in certain instances, and in courses that do not include laboratory work, without requiring the conditioned student to enroll for further instruction in preparation for such examinations. Students who are eligible for re-examination must make written application at least two weeks before the examinations are scheduled, and remit the required fee of five dollars for each examination.

The mere attainment of passing grades does not insure promotion. The continuance in good standing of any student is also contingent upon his faithful adherence to the rules and regulations of the School and of affiliated institutions, as well as his observance in

* *A special bulletin will be issued.*

extra-curricular activities of a moral standard appropriate to one aspiring to the medical profession.

Any student who voluntarily withdraws from the School for proper reasons forfeits his standing, but may apply for readmission in a subsequent year. If not too long a time has elapsed, and if changes in the rules of promotion or in the curriculum do not render such an admission impractical, his application should receive favorable consideration.

DISCIPLINE AND DISMISSAL

The University reserves the right to dismiss at any time a student whose deportment or scholarship is unsatisfactory, and to refund a proportional part of the current tuition fee he has paid. Admission to the University is in all cases for one year only, and readmission may be denied without explanation.

GRADUATION AND DEGREES

Candidates for the degree of *Doctor of Medicine* must possess the following qualifications:

1. The candidate must be at least twenty-one years of age and of good moral character.
2. The candidate must have fulfilled all of the requirements for admission to the School of Medicine; and he must have completed four full years of not less than thirty-two weeks in each year in an approved Medical School, of which one year must be spent in the regular senior class of this School.
3. The candidate must have obtained a passing grade in each subject of the curriculum, and a satisfactory record of laboratory, clinical, and maternity work.
4. The candidate must have filed satisfactory means of permanent identification, including a recent photograph.
5. The candidate must have satisfied all his financial obligations to the School, including the Graduation Fee of twenty-five dollars.
6. The candidate must have satisfied the Faculty and Trustees that he has attained proficiency in Medicine, Surgery, and Obstetrics, and that he has the mental and moral qualifications essential to the successful practice of medicine.

The degree of Doctor of Medicine *cum laude*, or *magna cum laude* may be given to students of highest rating in the Fourth Year Class, on recommendation of the Faculty.

Fees and Expenses

The cost of operating a medical school is very high. It is the policy of Middlesex University to charge as low a tuition fee as is consistent with the maintenance of proper educational standards.

The requirements of medical education are such that only a limited amount of outside work can be done by a student without seriously endangering his health or scholastic standing. For this reason prospective students are urged to postpone their matriculation until they are reasonably sure of their ability to meet the expenses of at least the first year of the medical course. If a student is obliged to drop out of school before the completion of the four-year course in order to earn sufficient funds for the continuance of his educa-

tion, he may apply for a leave of absence, and every effort will be made to make a place for him, should he make application for readmission within a reasonable time.

Fees are payable only by postal money order, certified check, express money order, and telegraph order. Remittances must be made by mail, and addressed to Middlesex University, Box 310, Waltham, Massachusetts.

The verification fee of ten dollars is payable by all new students and should accompany the filing of the application blank. This fee is not refundable under any circumstance, since each application involves secretarial work and receives the careful attention of the administrative staff. The verification fee is payable only once, and may be credited to the student's account, should he withdraw his application and then re-apply in a subsequent year.

The matriculation fee of twenty-five dollars is payable by each candidate for admission or re-admission to the School, when he is notified that his application has been acted upon favorably by the Committee on Admissions. No place will be reserved in a class until the accepted applicant has paid this matriculation fee. This fee is payable annually and is not refundable. This fee is to reserve a place for the matriculant, and does not constitute part of the tuition.

The tuition fee of $410 is charged for each year of instruction in the School of Medicine. This fee is payable in three installments on the dates indicated on the University Calendar. The first installment is $135, the second $135, and the third $140. The tuition fee includes all laboratory charges except breakage, damage, and loss of apparatus. It is not subject to refund.

A locker fee of $1.00 is payable with the first installment of the tuition. Seventy-five cents is returnable upon surrender of the key at the end of the term.

Any student whose installment of indebtedness to the School remains unpaid on the date fixed for final payment is deprived of the privileges of the School until he is reinstated. Reinstatement is obtained only by consent of the Board of Trustees, after payment of all indebtedness and a reinstatement fee of ten dollars. This charge of ten dollars is also payable, in the form of a late registration fee, by all students who may be permitted to enroll in the School after the date set for payment of the first installment of the tuition.

The graduation fee of twenty-five dollars is payable by all successful candidates for the degree of Doctor of Medicine, upon notification by the Bursar.

An examination fee of five dollars is charged for the first re-examination in any subject failed. Any subsequent or special examination, except in the case of illness, is subject to a charge of ten dollars.

A student may obtain one transcript of his scholastic record without charge. A clerical fee of one dollar is required for all additional transcripts.

First and second year students are required to possess satisfactory microscopes, fitted with low, high power, and oil-immersion objectives. The University has for sale a limited number of adequate microscopes at prices ranging from $95 to $115 each. New instruments cost about $150. Microscope lockers are available, but the University assumes no responsibility for the safety of instruments stored in any of its buildings.

The expenses for text-books and other equipment for the session 1940-1941 were as follows:

First-Year-Class	$110.00	Third-Year-Class	$85.00
Second-Year-Class	$60.00	Fourth-Year-Class	$20.00

The amount to be charged for books and equipment for the session 1941-1942 will not be announced until after the Committee on Curriculum has acted in July. Students are required to make a deposit to cover the cost of this material two months before the opening of the school year, so that their equipment and books may be purchased for them and delivered during the first days of the session.

The equipment is standard, and includes sphygmomanometers, haemocytometers, haemometers, stethoscopes, and certain other instruments.

Attendance

Attendance during all class and laboratory exercises is required. Students who are absent, for any considerable time, on account of illness, or for other unavoidable reason, must present medical certificates or other satisfactory evidence in justification of their absence. A routine medical examination of each member of the entering class will be made at the beginning of the academic year.

Medical Library

The Library of the School of Medicine is situated on the Waltham campus. It contains a collection of some 4,000 medical volumes, including a large number of standard modern text books. Substantial additions to the Library are being made annually. Current and past copies of the leading medical periodicals and clinical abstracts are on file. The Library is open during the school session, and a Librarian is in charge.

The Medical Library occupies a long one-story building which forms the western wall of the medical quadrangle, and contains individual booths for study. It is well supplied with medical periodicals, as well as with a selection of better general magazines and newspapers.

The College Library, with its collections of scientific, academic, and literary books, is available at all times to students enrolled in the medical school.

The Boston Medical Library, No. 8 The Fenway, is situated within four blocks of the Back Bay Building, and is open to both the faculty and the medical students. Founded in 1875, it contains the largest collection of medical books and periodicals to be found in New England, including over 160,000 bound volumes, over 100,000 pamphlets and reprints, and some 900 current periodicals. Students also have free access to the great resources of the Boston Public Library, which is also in the Back Bay section, and to the Waltham Public Library, not far from the medical campus.

Laboratories and Collections

The laboratories of the School of Medicine occupy four buildings on the Waltham campus. They are spacious and unusually well lighted, and are supplied with gas, water, electricity, and refrigeration. There are smaller rooms for special work, apparatus rooms, and departmental offices. The laboratories are well equipped with paraffin ovens, incubators, microtomes, and a full line of glassware, chemicals, and other accessories. There are available a dark room and photographic equipment with microprojection lanterns, motion picture projectors, and photomicrographic apparatus. In the anatomical museum there

are assembled and displayed collections of various bones. In the pathological museum preserved specimens are available for the gross study of pathology.

One large class-room, on the fifth floor of the South-East Tower, is reserved for visual education, and is used for the exhibition of scientific motion pictures, lectures illustrated by stereopticon slides, and the study of histological and pathological specimens by microprojection.

The following medical films are among those recently exhibited to the student body:

Fracture of the Skull	Cesarean Section
Pearly Tumor of Cerebellum	Varicose Veins and Ulcers
Spinal Cord Injury	Surgery of the Extremities
Cataract Extraction	Pathology of the Breast
Full Thickness Skin Graft	Uterine Fibroids
Esophageal Diverticulum	Absorbable Sutures
Subtotal Thyroidectomy	Suture Technic
Thyroidectomy	Cancer of the Cervix
Appendectomy	Malaria
Cholecystectomy	Renal and Cardiac Edema
Hernioplasty and Lipectomy	Blood Transfusion
Radical Mastectomy	Conduct of Normal Labor
Peptic Ulcers	Injuries of the Newborn
Hemorrhoidectomy	Episiotomy and Repair
Montgomery-Simpson Suspension	Treatment of Asphyxia Neonatorum

Comparative Physiology of Labor

CLINICAL INSTRUCTION

Middlesex University has affiliations for clinical teaching with a number of state, municipal, and private hospitals throughout Massachusetts. Senior students are assigned to these hospitals on a rotating schedule so as to obtain a well-rounded clinical training, in preparation for the internship to which each student is recommended immediately upon graduation from the School of Medicine.

Students receive clinical instruction at the Captain John Adams Hospital, of the Massachusetts Soldier's Home, a state institution; most of the resident members of the hospital staff are members of the faculty of the School of Medicine. Other institutions that receive students as assistants in medicine include the Burke Memorial Hospital, a municipal institution in Lawrence; the Forest Hills General Hospital, Boston; the Irving Hospital, Framingham; the Central Hospital, Somerville; the Union Hospital, New Bedford; the Bellevue Hospital, Brookline; the Middlesex Hospital, Cambridge; the Phaneuf Hospital, Brockton; the Freeman L. Lowell Memorial Hospital and Dispensary, Boston; the Revere General Hospital, Revere; the North Attleboro General Hospital, North Attleboro; the Clover Hill Hospital, Lawrence; the Maplewood Hospital, Malden; the Fitchburg General Hospital, Fitchburg; and the Whidden Memorial Hospital, Everett.

The medical students are privileged to attend many lectures, demonstrations, and special clinics, conducted in the auditoriums of many of the great hospitals and scientific institutes of greater Boston, which is the medical center of all New England; and are taken on clinical visits to the state hospitals for the treatment of mental, tubercular, and cancer patients, including the North Reading State Sanitorium, the Pondville Cancer

Hospital, the Boston Psychopathic Hospital, the Danvers State Hospital, the Metropolitan State Hospital, the Westborough State Hospital, the Taunton State Hospital, the Foxborough State Hospital, the Medfield State Hospital, the Grafton State Hospital, and the Walter E. Fernald State School.

COURSES OF INSTRUCTION

SCHEDULE OF HOURS

The announcement of courses consists of a condensed statement of the general plan of instruction in each department, and a description of the didactic and practical work required during the four-year medical course.

The curriculum in medicine covers approximately 4,000 hours of instruction, and is designed to comply with the requirements of the Approving Authority on Medical Education of the Commonwealth of Massachusetts, and the recommendations of the associated American Medical Colleges.

The curriculum is divided into nine fields:

	No. of Hours
1. Anatomy, including Histology and Embryology	640
2. Physiology	272
3. Biochemistry	256
4. Pharmacology	150
5. Pathology, Bacteriology and Immunology	610
6. General Medicine, including Pediatrics, Neurology and Psychiatry, Dermatology and Syphilis, and Roentgenology	1,000
7. General Surgery, including Orthopedic Surgery, Urology, Ophthalmology, Otolaryngology	640
8. Obstetrics and Gynecology	225
9. Public Health and Preventive Medicine, and Medical Jurisprudence	180
10. Electives or Additional Clinics	100
Total	4,073

ANATOMY

The Department of Anatomy gives instruction in gross human anatomy, histology, neurology, and embryology. Advanced work is offered for those with adequate preparation.

The department has two large laboratories, one for gross dissection and one for microscopic work. In addition there is a large preparation room for prosecting and museum work, as well as a special laboratory for the histology department. The department has lockers for the dissection coats and a large wash room.

The department has its own library for student reference and many charts, photographs, and drawings available for study. In addition to the above there is a small museum of anatomy preparations, as well as an ample collection of histological, embryological, and neurological slides. A separate projection room equipped for microprojection as well as lantern and motion pictures is shared with other departments.

GROSS ANATOMY. — In this course, four to six students are assigned to each body according to the supply available. Daily lectures and a laboratory manual guide the students who all work on the same region at one time. Each student is responsible for the dissection of one half of the body. Each table has its own bone collection, in addition to which bones are loaned to individual students. Several skeletons are available for study in the laboratory and lecture room.

The lectures are intended merely as a guide and supplement to the standard text-books, stressing the practical applications of anatomy in the daily work of physicians and surgeons.

Daily oral examinations are given at the dissection tables by an instructor of the department.

Eighty lectures, one hundred and sixty laboratory hours.

Neuro-Anatomy. — This course is given in the histology laboratory in the second half of the first year, and includes gross and microscopic anatomy of the central nervous system on human material supplemented by sheep brains. The course is correlated with the course in physiology. Each student is responsible for the microscopic anatomy and nervous pathways which are learned from the slide collection.

Sixteen lectures, thirty-two laboratory hours.

Topographical and Surgical Anatomy. — This is a fourth year course reviewing gross anatomy with special emphasis on topography and surgical application. Museum specimens and special dissections are used.

Sixteen lectures and demonstrations.

Histology. — Morphology and Biology of the cell. Histology and functions of the tissues and Microscopic Anatomy of the organs with reference to experimental medicine. Laboratory work includes the study of stained slides of normal human organs and tissues.

Embryology. — The fundamental facts of the development of human embryos are presented in lectures illustrated by projection and demonstration of microscopic and macroscopic preparations. Sections of embryos of domestic animals are studied in the laboratory. This course is closely correlated with the lectures and laboratory work in histology.

(Histology and Embryology): First year, first semester, 80 lectures, 160 laboratory hours.

PHYSIOLOGY

The lectures are supplemented by the study of textbooks and periodicals, and deal with the physiology of muscle, nerve reflexes, the central nervous system, the autonomic system, the blood vascular system, respiration, digestion, secretion, absorption, metabolism, the sense organs, and reproduction. The laboratory emphasizes mammalian experimentation, general technic, gas analysis, and metabolism. First year, second semester: 80 lectures and conferences, 192 laboratory hours.

BIOCHEMISTRY

A study of the chemical substances and reactions involved in the physiological processes of the human body. The laboratory work includes a study of the chemical constituents of living matter, the chemical properties of carbohydrates, proteins, and fats, aspects of nutrition, the action of digestive enzymes, and the qualitative and quantitative analysis of blood and urine. First year, second semester: 64 lectures and recitations, 192 laboratory hours.

BACTERIOLOGY AND PUBLIC HEALTH

BACTERIOLOGY. — This course consists of a survey of the general features of diseases caused by bacteria and related organisms. The pathogenesis of infectious diseases is emphasized. It consists of lectures, demonstrations, and laboratory instruction of procedures employed in microscopical, cultural, experimental, and immunological diagnosis of infections. The course is designed to familiarize the student with common pathogenic and non-pathogenic bacteria.

IMMUNOLOGY. — This course consists of lectures, demonstrations, and laboratory instruction of the application of immunological principles to diagnosis, prevention, and treatment of disease. The principles of immunology, serology and allergy, are considered both theoretically and practically.

PUBLIC HEALTH. — The lectures in this course are closely correlated with the laboratory work in bacteriology and immunology, in order to emphasize those aspects of infectious diseases which relate to problems of Public Health, Hygiene, and Preventive Medicine. The communicable diseases are discussed in connection with epidemiology, administrative control, and prevention. Organized public health activities as conducted by state, municipal, and county health agencies, are demonstrated through field trips.

PARASITOLOGY AND TROPICAL MEDICINE. — Animal parasites amongst the protozoa, helminths, and arthropods which are responsible for human diseases, are studied. The biology and physiology are discussed along with the pathological aspects, clinical diagnosis, and treatment of the diseases.

PATHOLOGY

GENERAL AND SPECIAL PATHOLOGY. — The course is designed to teach the fundamental principles of abnormal morphology, physiology, and chemistry, and consists of laboratory work, lectures, and demonstrations. The laboratory course in pathologic histology is based upon a selected collection of microscopic slides. Gross pathology is taught with fresh and museum specimens. The physiologic and anatomical changes which occur in cell tissues, organs, and systems are explained in the lectures, and the correlation between clinical and pathological findings are discussed in conferences. The student is trained in observing demonstrations of postmortem and post-operative materials.

CLINICAL PATHOLOGICAL CONFERENCES

Case histories are presented and autopsies and clinical findings are compared. Specimens are demonstrated and examined from the standpoint of differential diagnosis and treatment.

PHARMACOLOGY

PHARMACOLOGY. — Lectures entailing the study of drugs; including their chemistry and actions in man and the animals. In connection with the effects of the various drugs,

emphasis is placed upon their pathological physiology. The clinical applications of drugs are noted. The course includes the effects and importance of hormones and the vitamins. The most important poisons are discussed as to their diagnosis, effects, therapy, detection, and social importance. In the laboratories, the students perform experiments upon the effects of the different remedies in animals; learn the technics of different pharmacological experiments, and observe demonstrations of the more complicated experiments and procedures, as the onkometer experiments or those on the sinus caroticus. The simple chemical experiments on alkaloids, glucosides, and some of the ordinary drugs are performed by the students. Simple methods of detection of poisons are also employed.

MEDICINE

Instruction in this department extends over three years of the medical course, and is designed to cover the principles of the practice of medicine and of clinical medicine. It begins in the second year with a discussion of symptomatology and physical diagnosis so presented as to acquaint the student with history taking, physical examination, and the interpretation of the clinical manifestations of disease.

During the third and fourth years of the course emphasis is shifted to the practical methods of clinical diagnosis in hospitals, clinics and dispensaries, where the student, through individual instruction, is taught to apply in practical work the knowledge gained from the classroom and text-books. Selected cases are demonstrated in the hospital amphitheatre. By the sub-division of the Fourth-Year Class into small sections, individual instruction in the various departments of medicine is facilitated, and direct contact with patients made possible.

CARDIOLOGY

The third year course is taught in 32 lectures, one every week of the two semesters. The course is theoretical and deals with the general technic, with the description of the different heart diseases, and with the treatment of them. Anatomical sketches, x-ray and electro-cardiogram drawings are shown and discussed.

The fourth year course is also taught in 32 lectures, one every week of the two semesters. The lectures are given at the Middlesex Hospital. In each of them a patient with heart disease is shown to the students and diagnosis and treatment of the single case are discussed. Electrocardiograms, x-ray plates are also shown in this course.

PEDIATRICS

Instruction begins in the third year with a course of lectures, supplemented in the fourth year with clinical instruction and the amphitheatre presentation of cases. The course covers principles of infant feeding and the physiology of nutrition, the normal growth and development of children, as well as the diagnosis and treatment of the diseases of children, including those of a contagious nature. The preventive phase of pediatrics is emphasized.

ROENTGENOLOGY

This course begins with a consideration of the fundamental principles of physics as applied to radiology and proceeds to a study of the use of the X-ray in diagnosis and treatment. Practical instruction is given in the interpretation of findings on fluoroscopic screen and films. The appearance of normal structures and typical pathologic conditions are demonstrated in the classroom and by clinical observation in the X-ray Department of the hospital. Weekly lectures are supplemented by plate-reading and direct hospital training.

DERMATOLOGY AND SYPHILIS

This course covers the etiology, symptoms, histopathology, diagnosis, and treatment of diseases of the skin, and includes a discussion of the methods of radium and roentgenray therapy. The clinical and laboratory procedures used in the treatment and diagnosis of syphilis are discussed and demonstrated.

LABORATORY DIAGNOSIS

This course deals with the significance and technique of the practical laboratory procedures which pertain to clinical diagnosis. It consists of lectures, demonstrations, and laboratory instruction in the examination of the blood, urine, sputum, stomach contents, feces, effusions, and spinal fluid.

NEUROLOGY AND PSYCHIATRY

The course in Neurology begins with a brief review of Neuro-Anatomy, and proceeds to the study of nervous diseases and neurological diagnosis, with special reference to the relations of neuro-pathology and clinical neurology.

In Psychiatry the lectures cover the nature, cause, diagnosis, prognosis, and treatment of the various forms of mental disease. The commitment of the insane is discussed from the point of view of the medical practitioner. Clinical discussion, demonstration, and examination of the various types of mental and nervous disorders is conducted with the co-operation of the members of the staffs of various state hospitals for the insane.

ENDOCRINOLOGY

Histophysiology of the endocrine glands. Hormones, their physiology and pharmacology. Somato-psychic constitution in relation with endocrinology. Problems in experimental endocrinology. Syndromes and diseases. Endocrinology in its relation to social and preventive medicine.

MEDICAL JURISPRUDENCE

This course deals with the relationship of medicine and the law, particularly stressing the legal principles which pertain to the practice of medicine, and the legal duties and

obligations of a physician. In a series of thirty-two lectures the following subjects are discussed: Medical Licensure and Causes of Revocation, Expert Testimony and the Laws of Evidence, the Contractual Relationship between Physician and Patient, the Legal Obligations of a Physician, Civil and Criminal Malpractice, False Representations, Insanity as a Defense and as a Disability, Commitment, Crimes with a Medical Aspect, Industrial Accidents and Actions of Tort, Medical Legal Aspects of Birth and Death.

SURGERY

Instruction in this department begins in the second year with a systematic course dealing with the principles of surgery. In the third and fourth years consideration is given to diseases of the bones and joints, tumors, hernia, and anesthesia. Lectures and assigned study are supplemented by clinical and amphitheatre demonstrations covering asepsis, antisepsis, sterilization of the operating room materials, pre-operative treatment of patients, surgery of wounds, treatment of fractures and dislocations, and the usual surgical operations of the head, neck, thorax and abdomen. Operative surgery on the cadaver, included in the course in applied anatomy, is correlated with instruction in this department.

Students have an opportunity of assisting in private operating rooms, and of receiving practical instruction in minor surgery in outpatient clinics.

ORTHOPEDIC SURGERY

The effects of infection, traumatism, habitual overstrain, and functional insufficiency upon joint structures are studied in this course, emphasis being placed upon pathology and upon the physical examination of normal and pathological joints. Treatment of diseases and deformities of the spine and extremities is discussed, and the application of casts, splints, and other methods of cure demonstrated.

The didactic lectures are supplemented by the clinical study of the more common orthopedic subjects, including deformities from infantile paralysis, arthritis, tuberculosis of the joints, osteomyelitis, and congenital deformities.

OPHTHALMOLOGY

Starting with lectures in the third year, instruction in this course continues in the fourth-year clinics, with the class divided into teaching sections. Each student received individual instruction in the use of the ophthalmoscope. External diseases of the eye and anomalies of the ocular muscles are covered in a practical way. The elements of the fittting of glasses are demonstrated and discussed.

OTOLOGY AND RHINOLARYNGOLOGY

The theoretical aspects of the ear, nose, and throat diseases are considered in the third year, through lectures and demonstrations. The anatomical basis is covered by studying a large variety of gross specimens and slides. The physiological aspects are illustrated by demonstration of the experimental methods commonly employed.

In the fourth year, there is hospital instruction in examination, diagnosis, and treat-

ment. The student learns the use of the otoscope, various methods of testing the hearing and labyrinthine function, and is given an opportunity to observe the more important operative procedures.

OBSTETRICS

Instruction in this department is given during the third and fourth years, and includes lectures, recitations, manikin exercises, laboratory courses, and practical work and observation in the amphitheatre, delivery room, and outpatient department.

GYNECOLOGY

Instruction is given by didactic lectures in the third year, and by clinical observation and demonstration in the fourth, in the general field of gynecological diseases, and the student is familiarized with the cause, diagnosis, and treatment of the more significant pathological condltions within the pelvis.

MEDICAL ETHICS AND HISTORY

The purpose of this course is to outline the progress of medical science from the days of the alchemist and the midwife to modern times, emphasizing the biographies of those who have most significantly contributed to the rise of modern medical methods. Instruction is parallelled by assigned text-book study. The last few lectures deal with the ethical standards of the profession of medicine, and with the specific problems in ethics that arise in the practice of medicine.

DEGREES

At Commencement Exercises, held at the Hamblin L. Hovey Institute, Waltham, on the tenth day of June 1940, the degree of Doctor of Medicine was conferred on the following candidates:

CLASS OF 1940

Phyllis Madine Abbott . . . . . Auburn, Me.
A.B., Randolph-Macon Woman's College

Louis James Badia . . . . . New Rochelle, N. Y.
Ph.G., B.S., Fordham University

Irving Lurie Berman . . . . . New York, N. Y.
B.S., College of the City of New York

Raymond Gerard Cannon . . . . . Bellerose, N. Y.
Elon College

Edward Milan Cardillo . . . . . Everett, Mass.
A.B., Boston College

Jack Stanley Carp . . . . . Manchester, N. H.
Middlesex College

John Quinn Clark . . . . . Providence, R. I.
Ph.B., Providence College

Simon Coren, *cum laude* . . . . . Boston, Mass.
Middlesex College

Edward Downer Croissant . . . . . West Medford, Mass.
Tufts College

Edmund Vincent Dente . . . . . Somerville, Mass.
Middlesex College

Robert Edward Donovan . . . . . New York, N. Y.
Notre Dame College

Theodore Gilbert Echlov, *cum laude* . . . . . Boston, Mass.
A.B., Harvard University

Max Ettenberg . . . . . Cambridge, Mass.
Middlesex College

Albert Germany Flynn . . . . . Baton Rouge, La.
Louisiana State College

Robert Charles Gaudreau . . . . . Indian Orchard, Mass.
A.B., Assumption College

William M. Gianquinto . . . . . Brooklyn, N. Y.
A.B., Ohio University

William Goldstein . . . . . New York, N. Y.
B.S., Long Island University

Rosario Gullo . . . . . Buffalo, N. Y.
B.S., Canisius College

Wendell Burke Harris Wilberforce University	Brockton, Mass.
Lawrence Seymore Hirsch University of Buffalo	Buffalo, N. Y.
Emil Lehr Long Island University	Montclair, N. J.
Mashe Uda Labe Lightman A.B., Bates College	Lowell, Mass.
Daniel G. Lipman Dalhousie University	Brooklyn, N. Y.
Simon Morris Lipton B.S., University of Florida	Miami, Fla.
John Anthony Mastromarino Middlesex College	Revere, Mass.
John E. McClusky B.S., Fordham University	Providence, R. I.
George Metz A.B., New York University	New York, N. Y.
Floyd Attiyeh Nassif B.S., State University of Iowa	Cedar Rapids, Iowa
Chester Leonard Nayfield B.S., Bucknell University	Mt. Carmel, Pa.
George Emil Pagliarulo Middlesex College	Boston, Mass.
George Povey Parton, Jr. B.S., Catholic University	Chevychase, D. C.
Carmine Paulantonio B.S., Fordham University	New York, N. Y.
Saverio Picceri Middlesex College	Boston, Mass.
Lawrence Kempner Pious B.A., Wesleyan College	New Haven, Conn.
Everett Simon Radovsky, *cum laude* B.S., Rhode Island State College	Fall River, Mass.
Louis S. Riccardi A.B., University of North Carolina	Brooklyn, N. Y.
Rudolph Salvatore Romano B.S., Villanova College	East Greenwich, R. I.
Vincent Schettini A.B., Syracuse University	Newburgh, N. Y.
Walter Robert Schur Valparaiso University	Webster, Mass.
Julian Robert Seide New York University	New York, N. Y.
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Sheldon Morton Caplan . . . . . Chester, Pa.
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Harold Francis Dallas . . . . . New York, N. Y.
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Edward Anthony Nisi A.B., University of South Dakota	Brooklyn, N. Y.
Emile Justin Pelletier B.S., Tufts College	Salem, Mass.
Alfred Pelzig A.B., New York University	New York, N. Y.

Eli Perchuk . . . . . Brooklyn, N. Y.
A.B., New York University

Peter Perris . . . . . Boston, Mass.
Middlesex University

Robert Milton Phillips . . . . . Boston, Mass.
A.B., Boston College

Morris Rappaport . . . . . Ellenville, N. Y.
A.B., M.S., University of Michigan

James Edmund Reilly . . . . . Boston, Mass.
Middlesex University

Joseph Edward Risoli . . . . . New York, N. Y.
A.B., West Virginia University

Alexander Sidney Rogrotsky . . . . . Brooklyn, N. Y.
A.B., University of Louisville

Sydney Walter Rosen . . . . . Everett, Mass.
Middlesex University

Rosario Rotolo . . . . . Brooklyn, N. Y.
B.S., Long Island University

Herbert Rumerman . . . . . Arlington, Mass.
B.S., George Washington University

Vincent Joseph Russo . . . . . New York, N. Y.
Ph.G., B.S., Fordham University
Columbia University

Arthur Frederick Schiff . . . . . Haverhill, Mass.
A.B., Harvard University

Monroe Elliott Shack . . . . . Newark, N. J.
B.S., Muhlenberg College

David Nathan Shulman . . . . . Revere, Mass.
Middlesex University

Louis Siegel . . . . . New York, N. Y.
B.S., College of the City of New York

Stanley Edward Slivkin . . . . . Boston, Mass.
A.B., Harvard College

Bernard Snetsky . . . . . Boston, Mass.
Middlesex University

Daniel David Sokol . . . . . Revere, Mass.
A.B., Indiana University

Mathew Taback . . . . . New York, N. Y.
A.B., Harvard University
A.M., Columbia University

Anthony Ralph Tortora . . . . . Brooklyn, N. Y.
A.B., Washington University

Rosario Charles Toscano . . . . . Boston, Mass.
Middlesex University

Melvin Victor Warhaftig . . . . . Kearny, N. J.
A.B., New York University

Melvin Anderson Wein . . . . . Albany, N. Y.
B.S., Bucknell University

Frederick John Wolfram, Jr. . . . . Brooklyn, N. Y.
B.S., St. John's University

DISTRIBUTION BY COLLEGES

(Since some students attended more than one college in completing their preparation for admission to medical school, the number in this list will be greater than the total enrollment.)

Acadia University	1	Loyola University	1
Alabama, University of	6	Manhattan College	2
Albertus Magnus College	1	Maryland, University of	4
American International College	1	Massachusetts College of Pharmacy	5
Amherst College	1	Massachusetts Institute of Technology	1
Arkansas, University of	4	Massachusetts State College	8
Assumption College	1	Michigan, University of	9
Boston College	15	Middlebury College	1
Boston University	14	Middlesex University	65
Bowdoin College	1	Minot State Teachers' College	1
Brooklyn College	9	Minnesota, University of	2
Brown University	3	Mount St. Mary College	1
Bucknell University	1	Muhlenberg College	3
Buffalo, University of	4	Muskingum College	2
Central State College (Oklahoma)	1	New York State College	1
Chattanooga, University of	1	New York University	63
Chicago, University of	1	North Carolina, University of	1
Cincinnati, University of	1	North Dakota, University of	1
Clark University	4	Northeastern University	3
Colby College	1	Notre Dame, University of	2
College of the City of New York	17	Ohio State College	1
Colorado, University of	1	Ohio University	4
Columbia University	17	Pennsylvania State College	8
Dalhousie University	4	Pennsylvania, University of	6
Dartmouth College	1	Philadelphia College of Pharmacy and Science	1
Davidson College	1	Pittsburgh, University of	3
Denison University	1	Providence College	2
DePauw University	1	Rensselaer Polytechnic Institute	1
Detroit, University of	1	Rhode Island State College	3
Duke University	2	Richmond, University of	1
Duquesne University	1	Rutgers College	3
Fordham University	17	St. Anselm's College	1
Franklin and Marshall College	4	St. Bonaventure College	2
Georgetown University	2	St. Francis College (Pa.)	1
George Washington University	6	St. Francis Xavier College	1
Hamlein University	1	St. John's College	2
Harvard University	15	St. John's University (N. Y.)	2
Hawaii, University of	1	St. Louis University	7
Holy Cross College	2	South Dakota, University of	1
Howard University	2	State Teachers College (Bloomsburg, Pa.)	1
Hunter College	3	Syracuse University	2
Indiana University	2	Temple University	5
Iowa, State University of	3	Tennessee, University of	3
John Hopkins University	1	Texas, University of	1
Kansas, University of	2	Transylvania College	1
Kentucky, University of	3	Tufts College	10
Kentucky Wesleyan College	1	Tulane University	2
Lafayette College	3	Trinity College	1
London, University of	1	Union College	5
Long Island University	33	Vermont, University of	5
Louisiana State University	1	Vienna, University of	2
Louisville, University of	4		

Villanova College	5	Wilberforce University	2
Virginia, University of	2	Wisconsin, University of	1
Washington University	1	Yale University	1
West Virginia State College	1		
West Virginia, University of	2		

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

California	2	North Carolina	1
Connecticut	10	North Dakota	1
Illinois	3	Ohio	3
Iowa	1	Pennsylvania	12
Kentucky	2	Rhode Island	2
Louisiana	1	Tennessee	2
Maine	1	Virginia	2
Maryland	2	Vermont	2
Massachusetts	130	District of Columbia	2
Minnesota	1	Hawaii	1
New Jersey	21	Panama	2
New York	133		

SUMMARY

CANDIDATES FOR THE DEGREE OF DOCTOR OF MEDICINE

Senior Class	84
Junior Class	83
Sophomore Class	78
Freshman Class	92
	337

GIFTS AND ENDOWMENT

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I give to the Trustees of Middlesex University, an educational institution incorporated under the laws of the Commonwealth of Massachusetts, the sum of ..... dollars, to be applied to the general purposes of the University

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COLLEGE OF ARTS AND SCIENCES
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M.D. Degree

SCHOOL OF VETERINARY MEDICINE
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SCHOOL OF PODIATRY
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